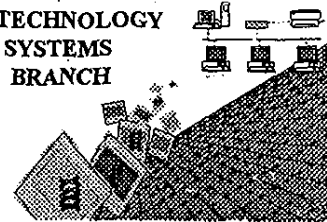


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/622,869
Source: 1 FWO
Date Processed by STIC: 1/4/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/622,869</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ✓ <u>5</u> _____ Variable Length	Sequence(s) <u>1,2-12 (maybe more)</u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING

DATE: 01/04/2004

PATENT APPLICATION: US/10/622,869

TIME: 14:04:41

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

4 <110> APPLICANT: TIKOO, Suresh K.
 6 <120> TITLE OF INVENTION: PAV REGIONS FOR ENCAPSIDATION AND E1
 7 TRANSCRIPTIONAL CONTROL
 9 <130> FILE REFERENCE: 293102003600
 11 <140> CURRENT APPLICATION NUMBER: US 10/622,869
 12 <141> CURRENT FILING DATE: 2003-07-18
 14 <150> PRIOR APPLICATION NUMBER: US 60/397,251
 15 <151> PRIOR FILING DATE: 2002-07-19
 17 <150> PRIOR APPLICATION NUMBER: US 60/460,798
 18 <151> PRIOR FILING DATE: 2003-04-04
 20 <160> NUMBER OF SEQ ID NOS: 114
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 7
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Porcine Adenovirus
 29 <220> FEATURE:
 30 <221> NAME/KEY: misc_feature
 31 <222> LOCATION: 1
 32 <223> OTHER INFORMATION: n=g or gg or cgg or gcgg or ggcgg
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION: 7
 37 <223> OTHER INFORMATION: n=cccgccaca or ccgcgcac or ccgcga or ccgcgc or ccgcg
 38 or ccc or cc or c
 40 <220> FEATURE:
 41 <221> NAME/KEY: misc_feature
 42 <222> LOCATION: 1, 7
 43 <223> OTHER INFORMATION: n = A,T,C or G
 45 <400> SEQUENCE: 1

W--> 46 naaattn

48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 7
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Porcine Adenovirus
 53 <220> FEATURE:
 54 <221> NAME/KEY: misc_feature
 55 <222> LOCATION: 1
 56 <223> OTHER INFORMATION: n=g or gg or ggg or cggg or gcggg
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <222> LOCATION: 7
 61 <223> OTHER INFORMATION: n=gtgccctct or gtgccctc or gtgccct or gtgcc or

pp 1-6
 Does Not Comply
 Corrected Dikette Needed

variable length is not permitted - "n" can
 only represent a
 single
 nucleotide
 (see item 5
 on Error
 Summary
 sheet)

variable length not permitted

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/622,869

DATE: 01/04/2004

TIME: 14:04:41

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

62 gtgcc or gtgc or gtg or gt or g
64 <220> FEATURE:
65 <221> NAME/KEY: misc_feature
66 <222> LOCATION: 1, 7
67 <223> OTHER INFORMATION: n = A,T,C or G
69 <400> SEQUENCE: 2

W--> 70 natttttn 7

72 <210> SEQ ID NO: 3
73 <211> LENGTH: 6
74 <212> TYPE: DNA
75 <213> ORGANISM: Porcine Adenovirus
77 <220> FEATURE:
78 <221> NAME/KEY: misc_feature
79 <222> LOCATION: 1
80 <223> OTHER INFORMATION: n=g or gg or cg or ccg or cccg
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: 6
85 <223> OTHER INFORMATION: n=ccccacctg or cccacacct or cccacacc or cccacac or
86 cccca or cccc or ccc or cc or c
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: 1, 6
91 <223> OTHER INFORMATION: n = A,T,C or G
93 <400> SEQUENCE: 3

W--> 94 ntatttn 6

96 <210> SEQ ID NO: 4
97 <211> LENGTH: 10
98 <212> TYPE: DNA
99 <213> ORGANISM: Porcine Adenovirus
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: 1
104 <223> OTHER INFORMATION: n=g or tg or gtg or ggtg or gggg
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: 10
109 <223> OTHER INFORMATION: n=ccctca or ccctc or ccct or cccc or ccc or cc
110 or c
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 1, 10
115 <223> OTHER INFORMATION: n = A,T,C or G
117 <400> SEQUENCE: 4

W--> 118 ntatttttttn 10

120 <210> SEQ ID NO: 5
121 <211> LENGTH: 8
122 <212> TYPE: DNA
123 <213> ORGANISM: Porcine Adenovirus

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/622,869

DATE: 01/04/2004

TIME: 14:04:41

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

125 <220> FEATURE:
 126 <221> NAME/KEY: misc_feature
 127 <222> LOCATION: 1
 128 <223> OTHER INFORMATION: n=g or tg or gtg or agtg or cagtg
 130 <220> FEATURE:
 131 <221> NAME/KEY: misc_feature
 132 <222> LOCATION: 8
 133 <223> OTHER INFORMATION: n=gtccgcgc or gtccgcg or gtcgc or gtccg or gtcc
 134 or gtc or gt or g
 136 <220> FEATURE:
 137 <221> NAME/KEY: misc_feature
 138 <222> LOCATION: 1, 8
 139 <223> OTHER INFORMATION: n = A,T,C or G
 141 <400> SEQUENCE: 5

W--> 142 ntatatan

8

144 <210> SEQ ID NO: 6
 145 <211> LENGTH: 6
 146 <212> TYPE: DNA
 147 <213> ORGANISM: Porcine Adenovirus
 149 <220> FEATURE:
 150 <221> NAME/KEY: misc_feature
 151 <222> LOCATION: 1
 152 <223> OTHER INFORMATION: n=g or ag or gag or agag or tagag
 154 <220> FEATURE:
 155 <221> NAME/KEY: misc_feature
 156 <222> LOCATION: 6
 157 <223> OTHER INFORMATION: n=ctctcagcg or ctctcagc or ctctcag or ctctca or
 158 ctctc or ctct or ctc or ct or c
 160 <220> FEATURE:
 161 <221> NAME/KEY: misc_feature
 162 <222> LOCATION: 1, 6
 163 <223> OTHER INFORMATION: n = A,T,C or G
 165 <400> SEQUENCE: 6

W--> 166 ntnttn

6

168 <210> SEQ ID NO: 7
 169 <211> LENGTH: 8
 170 <212> TYPE: DNA
 171 <213> ORGANISM: Porcine Adenovirus
 173 <220> FEATURE:
 174 <221> NAME/KEY: misc_feature
 175 <222> LOCATION: 1
 176 <223> OTHER INFORMATION: n=g or gg or tgg or ctgg
 178 <220> FEATURE:
 179 <221> NAME/KEY: misc_feature
 180 <222> LOCATION: 8
 181 <223> OTHER INFORMATION: n=c or cc or cca or ccac
 183 <220> FEATURE:
 184 <221> NAME/KEY: misc_feature
 185 <222> LOCATION: 1, 8

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/622,869

DATE: 01/04/2004

TIME: 14:04:41

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

186 <223> OTHER INFORMATION: n = A,T,C or G
188 <400> SEQUENCE: 7
W--> 189 ntatttttn 8
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 7
193 <212> TYPE: DNA
194 <213> ORGANISM: Porcine Adenovirus
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: 1
199 <223> OTHER INFORMATION: n=g or tg or gtg
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: 7
204 <223> OTHER INFORMATION: n=g or gg same
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: 1, 7
209 <223> OTHER INFORMATION: n = A,T,C or G
211 <400> SEQUENCE: 8
W--> 212 natatttn 7
214 <210> SEQ ID NO: 9
215 <211> LENGTH: 6
216 <212> TYPE: DNA
217 <213> ORGANISM: Porcine Adenovirus
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <222> LOCATION: 1
222 <223> OTHER INFORMATION: n=c or cc same
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: 6
227 <223> OTHER INFORMATION: n=c or cc or cct or cctg or cctgg or cctggg
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: 1, 6
232 <223> OTHER INFORMATION: n = A,T,C or G
234 <400> SEQUENCE: 9
W--> 235 nttttan 6
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 9
239 <212> TYPE: DNA
240 <213> ORGANISM: Porcine Adenovirus
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: 1
245 <223> OTHER INFORMATION: n=c or tc or ctc same
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING

DATE: 01/04/2004

PATENT APPLICATION: US/10/622,869

TIME: 14:04:41

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

249 <222> LOCATION: 9
 250 <223> OTHER INFORMATION: n=c or cc or cca or ccac *same*
 252 <220> FEATURE:
 253 <221> NAME/KEY: misc_feature
 254 <222> LOCATION: 1, 9
 255 <223> OTHER INFORMATION: n = A,T,C or G
 257 <400> SEQUENCE: 10
W--> 258 naatttttan 9
 260 <210> SEQ ID NO: 11
 261 <211> LENGTH: 8
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Porcine Adenovirus
 265 <220> FEATURE:
 266 <221> NAME/KEY: misc_feature *same*
 267 <222> LOCATION: 1
 268 <223> OTHER INFORMATION: n=g or cg or tcg or gtcg or ggtcg
 270 <220> FEATURE:
 271 <221> NAME/KEY: misc_feature
 272 <222> LOCATION: 8
 273 <223> OTHER INFORMATION: n=c or cc or cca or ccac
 275 <220> FEATURE:
 276 <221> NAME/KEY: misc_feature
 277 <222> LOCATION: 1, 8
 278 <223> OTHER INFORMATION: n = A,T,C or G
 280 <400> SEQUENCE: 11
W--> 281 nattttttn 8
 283 <210> SEQ ID NO: 12
 284 <211> LENGTH: 10
 285 <212> TYPE: DNA
 286 <213> ORGANISM: Porcine Adenovirus
 288 <220> FEATURE:
 289 <221> NAME/KEY: misc_feature
 290 <222> LOCATION: 1
 291 <223> OTHER INFORMATION: n=c or cc or ccc
 293 <220> FEATURE:
 294 <221> NAME/KEY: misc_feature
 295 <222> LOCATION: 10
 296 <223> OTHER INFORMATION: n=c or ct or ctg or ctgc or ctgcg or ctgcgc or *ctgcgcg*
 297 *ctgcgcg*
 299 <220> FEATURE:
 300 <221> NAME/KEY: misc_feature
 301 <222> LOCATION: 1, 10
 302 <223> OTHER INFORMATION: n = A,T,C or G
 304 <400> SEQUENCE: 12
W--> 305 ntattttattn 10
 307 <210> SEQ ID NO: 13
 308 <211> LENGTH: 16
 309 <212> TYPE: DNA
 310 <213> ORGANISM: Porcine Adenovirus 3

Please
 correct
 this
 error in
 subsequent
 sequences

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/622,869

DATE: 01/04/2004
TIME: 14:04:42

Input Set : A:\29310-20036.00.TXT
Output Set: N:\CRF4\01022004\J622869.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,7 ✓
Seq#:2; N Pos. 1,7 ✓
Seq#:3; N Pos. 1,6 ✓
Seq#:4; N Pos. 1,10 ✓
Seq#:5; N Pos. 1,8 ✓
Seq#:6; N Pos. 1,6 ✓
Seq#:7; N Pos. 1,8 ✓
Seq#:8; N Pos. 1,7 ✓
Seq#:9; N Pos. 1,6 ✓
Seq#:10; N Pos. 1,9 ✓
Seq#:11; N Pos. 1,8 ✓
Seq#:12; N Pos. 1,10 ✓
Seq#:31; N Pos. 5,6,7,8,9,10,11,12

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/622,869

DATE: 01/04/2004

TIME: 14:04:42

Input Set : A:\29310-20036.00.TXT

Output Set: N:\CRF4\01022004\J622869.raw

L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0